



ICAO ENGINE EXHAUST EMISSIONS DATA SHEET

SUBSONIC ENGINES

ENGINE IDENTIFICATION: CF6-80C2B4 BYPASS RATIO: 5.1
 UNIQUE ID NUMBER: 1GE027 PRESSURE RATIO (π_{00}): 30.4
 COMBUSTOR:
 ENGINE TYPE: TF RATED THRUST (F_{00}) (kN): 254.4

REGULATORY DATA

CHARACTERISTIC VALUE:	HC	CO	NO _x	SMOKE NUMBER
D _p /F ₀₀ (g/kN) or SN	15.8	63.6	48.5	8.4
AS % OF ORIGINAL LIMIT	80.7	53.9	48.1	46.1
AS % OF CAEP/2 LIMIT (NO _x)			60.2	
AS % OF CAEP/4 LIMIT (NO _x)			71.6	
AS % OF CAEP/6 LIMIT (NO _x)			81.2	
AS % OF CAEP/8 LIMIT (NO _x)			95.4	

DATA STATUS

- PRE-REGULATION
 x CERTIFICATION
 - REVISED (SEE REMARKS)

TEST ENGINE STATUS

x NEWLY MANUFACTURED ENGINES
 - DEDICATED ENGINES TO PRODUCTION STANDARD
 - OTHER (SEE REMARKS)

EMISSIONS STATUS

x DATA CORRECTED TO REFERENCE
 (ANNEX 16 VOLUME II)

CURRENT ENGINE STATUS

(IN PRODUCTION, IN SERVICE UNLESS OTHERWISE NOTED)
 x OUT OF PRODUCTION (DATE: -)
 - OUT OF SERVICE (DATE: -)

MEASURED DATA

MODE	POWER SETTING (%F ₀₀)	TIME (minutes)	FUEL FLOW (kg/s)	EMISSIONS INDICES (g/kg)			SMOKE NUMBER
				HC	CO	NO _x	
TAKE-OFF	100	0.7	2.430	0.08	0.56	29.20	7.2
CLIMB OUT	85	2.2	1.982	0.09	0.54	21.80	4.8
APPROACH	30	4.0	0.650	0.21	2.33	8.90	2.3
IDLE	7	26.0	0.199	9.74	43.91	3.67	3.0
LTO TOTAL FUEL (kg) or EMISSIONS (g)			830	3088	14193	11211	-
NUMBER OF ENGINES				2	2	2	2
NUMBER OF TESTS				3	3	3	3
AVERAGE D _p /F ₀₀ (g/kN) or AVERAGE SN (MAX)				12.2	55.9	44.1	7.2
SIGMA (D _p /F ₀₀ in g/kN, or SN)				1.3	3.1	2.1	1.1
RANGE (D _p /F ₀₀ in g/kN, or SN)				11.05-13.37	53.22-58.61	42.3-46.38	5.8-7.7

ACCESSORY LOADS

POWER EXTRACTION 0 (kW) AT - POWER SETTINGS
 STAGE BLEED 0 (% CORE FLOW) AT - POWER SETTINGS

ATMOSPHERIC CONDITIONS

BAROMETER (kPa)	97.4-97.8
TEMPERATURE (K)	287-296
ABS HUMIDITY (kg/kg)	0.0084-0.014

FUEL

SPEC	Jet A
H/C	1.94
AROM (%)	15.3

MANUFACTURER: General Electric Company
 TEST ORGANIZATION: CF6 Eval Engineering
 TEST LOCATION: Site IIIC, PTO, Peebles, Ohio
 TEST DATES: 29/05/1985-03/06/1985

REMARKS

1. Ref GE Reports R84AEB152 and R86AEB144 (Rev Aug 86).
2. Engine S/N's 690105 and 690005/2.

Compliance with Fuel Venting requirements: -

('x' if complies, 'PR' if pre-regulation, '-' if information is not available)